

Appl. № 10/754,800

Amdt. dated: March 14, 2006

Reply to Office action of December 23, 2005

## **REMARKS/ARGUMENTS**

### **Amendments to the Specification:**

The Specification, including the abstract of the disclosure, has been currently amended in accordance with the remarks and suggestions of the Expertise (Office action of 12/23/2005), and requirements of 37 CFR § 1.71 and 37 CFR § 1.77 (b) to clearly specify the subject matter of the present invention. The said subject matter consists in new and useful improvement on the process of detection of intruder's presence, locality and parameters of motion by innovative method of spatio-temporal ultrasound location of a target where the useful improvements thereof consist in sufficient enhancement of remote ability and betterment of reliability of ultrasound intrusion detection and protection technology. Furthermore, one of the amendments to the Specification is the detailed description of inter-echelon informational and processing logical interrelation in intrusion detection, justification and prevention procedures, and procedure of handling the ultrasound signals, acquired during the continuous status scan of ultrasound detectors (i.e. receivers and transceivers), up to the logically correct decision of the goal function of the intrusion detection and protection method. This description was not submitted earlier in such detailed format, since much more attention has been paid by the applicant to the description of the method of spatial multi-echelon arrangement of defense-in-depth intrusion detection and protection system. The said detailed description should evidently refine understanding of utilized therein the special terms and definitions of ultrasound intrusion detection regarding at least: 1) The situational modeling of the cause-effect vulnerability of protected objects in dependence on the presumptive behavior of an intruding subject or a trespasser along their possible routings throughout a multi-echelon structure. 2) The response simulation of the ultrasound intrusion detection and protection defense-in-depth system (plotting the intrusion event tree, then derivation of the decision math expressions, in particular designing the verification and decision logical matrices for treating and handling the ultrasound signals, acquired during the continuous status scan of intrusion detection system, etc.). 3) The verifying, analyzing and resolving logical procedures for treating and handling the acquired ultrasound signals of various functionalities by the control software algorithm, which governs the ultrasonic hardware that is being minimized in assortment and power consumption on the basis of conjugation of specification figures of various ultrasonic instruments involved.

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**REMARKS/ARGUMENTS (Continued)**

**Amendments to the Claims:**

Claims 1-7 have been currently amended regarding remarks of examiner (Office action of 12/23/2005) and in compliance with requirements of at least 35 U.S.C. §112, 37 CFR §1.75 and 37 CFR §1.77 (b).

Claim 8 is canceled since its wording was unsuccessfully composed to reveal clearly the fundamentals of informational and processing logical interrelation amongst the echelons of the ultrasound intrusion detection system, which is one of the important features of the subject matter of the present invention. New Claims 9 and 10 have been added regarding the necessity of clarifying the said novel logical procedures of the method and its practical arrangement for presentation of a complete operative system of ultrasound intrusion detection and protection.

The currently amended Claims 1-7 and new Claims 9 and 10 explain what is claimed by use of appropriate terms and definitions, which might previously have been recognized as improper limitations due to the lack of comprehensive description of logical procedures of treating and handling the ultrasound signals of different functionalities during implementation of the novel ultrasound intrusion detection, justification and prevention methodology.

The said amendments to the Claims haven't change the sense and art of the invention whereas in accordance with 37 CFR §1.75 (d)(1) those amendments enabled the Claims 1-7,9 and 10 to conform to the invention; and the terms and phrases used in the claims have got the antecedent basis in the description of the invention.

Respectfully submitted, CTRL Systems, Inc.

By Robert H. Roche Robert H. Roche

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Tel.: 1-(410)-876-5676

Toll free: 1-(877)-287-5797